

**EVENT EDGE SYNCHRONIZATION SYSTEM
AND METHOD OF OPERATION THEREOF**

ABSTRACT OF THE DISCLOSURE

The present invention provides an event edge synchronization system and a method of operating the same. In one embodiment, the event edge synchronization system includes: (1) a first clock zone device configured to generate an event signal based upon a first clock rate, (2) a second clock zone device configured to operate at a second clock rate, which is asynchronous with the first clock rate and (3) a synchronous notification subsystem configured to receive the event signal, synchronize the event signal to the second clock rate based upon an edge transition of the event signal and the second clock rate, and generate a synchronous notification signal therefrom.